SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 314/334 Bldgs





Page 1 of 7

Report Identification Number: 06I-0564-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

DCHM

SAF#: RC-001 / R300XX 1000

Payroll#: 72947



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Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
08 Feb 2006	J11491	06I04579	NMAM 7300M	G061901G	G WIPE
08 Feb 2006	J11492	06I04580	NMAM 7300M	G061901G	G WIPE
08 Feb 2006	J11493	06I04581	NMAM 7300M	G061901G	G WIPE
08 Feb 2006	J11490	06I04582	NMAM 7300M	G061901G	G WIPE
08 Feb 2006	J11489	06I04583	NMAM 7300M	G061901G	G WIPE
08 Feb 2006	J11495	06I04584	NMAM 7300M	G061901G	G WIPE
08 Feb 2006	J11496	06104585	NMAM 7300M	G061901G	G WIPE

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FAX: (801) 268-9992

Name: Joanna C. Sanchez

Title: Chemist

Date: February 15, 2006





Case Narrative Page

Report Identification Number: 06I-0564-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R300XX 1000

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General Set Information: There are 4 samples in set 06I-0561-02, 7 samples in set 06I-0564-01, 4 samples in set 06I-0565-01, 4 samples in set 06I-0566-01, and 5 samples in set 06I-0618-01 which were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

<u>Instrument Calibration</u>: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.02 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.07 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

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Dilution(s): None.



Case Narrative Page

Laboratory Control Sample and Duplicate Analysis: Two Laboratory Control Samples (LCSs) and two Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCSDs and the LCSDs were within the control limit of 20%.

Replicate Analysis: Four samples in this batch were replicated. The RPD between the samples and the replicates was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu g/L$)

B = Concentration factor from sample preparation

= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

Miscellaneous Comments: The LOQ for sample 06I04583 for cadmium is 0.6 because of interference.

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Report Page

Report Identification Number: 06I-0564-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R300XX 1000

Payroll#: 72947

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sample	Cadmiun µg/sampl		Lead µg/sample		
J11491	06104579	14 Feb 2006	< 0.02	U	0.57		6.1	
J11492	06I04580	14 Feb 2006	< 0.02	U	0.16		2.1	
J11493	06I04581	14 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
J11490	06I04582	14 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
J11489	06I04583	14 Feb 2006	0.025		< 0.07	U	4.1	
J11495	06I04584	14 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
J11496	06I04585	14 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
	Limit of E	Detection (LOD)	0.	02	0.	07		2.
R	equired Detecti	on Limit (RDL)						

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

Report Identification Number: 06I-0564-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R300XX 1000

Payroll#: 72947

Batch ID: G061901G

	QC				Parent		Percent	Relative Percent
QC Sample ID	Type	Analyte	Units	Result	Result	Target	Rec.	Diff.
BL-241207-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
BL-241207-1	MB_	Cadmium	μg/sample	ND	NA	NA	NA	NA
BL-241207-1	MB	Lead	μg/sample	ND	NA	NA	NA	NA
QC-241207-1	LCS	Beryllium	μg/sample	11.2	NA	10.0	112.	NA
QC-241207-1	LCS	Cadmium	μg/sample	34.4	NA	30.0	115.	NA
QC-241207-1	LCS	Lead	μg/sample	106.	NA	100.	106.	NA
QD-241207-1	LCSD	Beryllium	μg/sample	11.5	11.2	10.0	115.	2.94
QD-241207-1	LCSD	Cadmium	μg/sample	35.4	34.4	30.0	118.	2.68
QD-241207-1	LCSD	Lead	μg/sample	109.	106.	100.	109.	2.66

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|)/((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|)/((Parent + LD)/2.0)) * 100

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COC Page

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